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# COMBAT DEVELOPMENTS NEWSLETTER

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## Publication of TRADOC Pam 71-9

TRADOC Pam 71-9 has been revised effective 1 August 98. It has been posted on the TRADOC home page at: [www-tradoc.army.mil/tpubs/pamndx.htm](http://www-tradoc.army.mil/tpubs/pamndx.htm) The Pam can be viewed in HTML format or downloaded in MS Word or PDF format.

The Pam will not be published in hard copy. A TRADOC Pam 71-9 CD ROM will be published and distributed in October 98.

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## What's New in TRADOC Pam 71-9

Highlights of the changes in the 1 Aug 98 revision:

- ✍✍ Procedures on establishing and conducting ICTs is revised and amended. (ch 4). Highlights include:
  - ✍✍ TRADOC CoS will approve Tier one ICT Charters (para 4-3e)
  - ✍✍ ICT products are defined (para 4-3e(4))
- ✍✍ Operational, Branch and Functional Concepts have been replaced with "Warfighting Concepts of Operation" (para 5-2b).
- ✍✍ Experimentation resource management policy added (para 8-2).
- ✍✍ The Quick Reaction Concept Experimentation Program (CEP) and the OML of unfunded CEPs replaces the out-of-cycle request program.

- Emphasis added on early coordination and integration of proposed CEPs (para 8-4b(2)).
- ✍✍ “Battle Lab Experiment (BLE)” renamed “Limited Objective Experiment (LOE) para 8-6. ”
  - ✍✍ Requirements Analysis guidance refined (para 9-3a).
  - ✍✍ Key performance parameter (KPP) guidance added (para 11-3e). Highlights include:
    - ✍✍ The rationale for the KPP must state the operational consequences of not meeting the KPP threshold (para 11-3e(5)).
    - ✍✍ The KPP rationale will be supported by experimentation and/or analysis and documented in the systems requirement analysis (para 11-3e(5)).
  - ✍✍ Guidance added on how to develop and document terrain data requirements (para 11-3h).
  - ✍✍ ORDs for information systems must be updated periodically, at least annually (para 11-3k).
  - ✍✍ Requirement added to update all old requirements documents into the ORD format if processing a change to that document (para 11-10a(2)).
  - ✍✍ Hardware and software configuration control procedures added (para 13-2)
  - ✍✍ Additional guidance is provided on conducting ICTs and documenting ICT products. Highlights include:
    - ✍✍ Guidance on industry and academia participation (B-3)
    - ✍✍ DTLOMS Determination Analysis (app B, para B-7)
  - ✍✍ Requirement for a detailed Operational and Organizational Plan in the requirement document added (app I, para I-3(1)).
  - ✍✍ MANPRINT input into the requirements development process increased (app I, para 5c).
  - ✍✍ Electrical power management and consumption guidance added (app I, para 5h).
  - ✍✍ The DTLOMS determination analysis report must accompany ACAT I & II MNS when the MNS is forwarded to HQ TRADOC for approval (fig L-2).
  - ✍✍ The requirements analysis must accompany ACAT I & II ORDS when the ORD is forwarded to HQ TRADOC for approval (fig L-2).
  - ✍✍ Examples provided of the following: Integrated Concept Team charter; KPPs in an ORD, and an ORD/COIC crosswalk (app. R).
  - ✍✍ NBC survivability consideration during requirements determination are provided (app. S).
  - ✍✍ Army Operational Architecture life cycle management and Operational Architecture products are defined (app. T).
  - ✍✍ Diagnostics and TMDE guidance added (app U).

## Combat Developments Training

Combat Developments (CD) Executive Course. A course for CD executives is under development--with the pilot course starting on 1 Mar 99. CD executives include DCSCD Directors, Deputy Directors of Battle Laboratories, TRADOC System Managers (TSMs), and TRADOC Program Integration Officers (TPIOs).

The Army Force Management School at Fort Belvoir, Virginia, will administer the course. The course will consist of a three-week core which educates and trains the Army's professional force managers to accomplish Army functions and missions. Students learn how to design, develop, and structure forces and how to modernize and maintain units. This will be followed by a one- week, special CD executive subcourse which will include concentrated training and practical exercises on, among other things, the requirements determination process, requirements documentation, the materiel acquisition management process, and system testing and fielding. Add to CD Exec Course article. To help set up this course, we've established a panel of five current TSMs.

Again, the pilot course starts on 1 Mar 99; and another course will be available in the Aug/Sep time frame. All incoming executives should be scheduled for the training prior to assumption of duties, when possible. TDY and per diem is centrally paid and is not charged against the losing or gaining installation. Students can be scheduled for the class by e-mailing the point of contact (POC) below. Installations are urged to coordinate training for incoming executives prior to assumption of duties.

CD Course. The two-week course is for Army officers (CPT to LTC), warrant officers, noncommissioned officers (SFC and above), and civilians (GS-11 to GS 14) recently assigned to, or en route to, their initial assignment in a CD or materiel acquisition position. The course is taught by the Army Logistics Management College at Fort Lee, Virginia. A course schedule is provided below. See your training managers for instructions on how to apply.

Combat Developments Course (ALMC-CD)

Mode	Class Number	Start Date	End Date	Nominations Due	Location
RESIDENT	99-001	26 OCT 98	6 NOV 98	11 SEP 98	ALMC, FT LEE, VA
RESIDENT	99-002	7 DEC 98	18 DEC 98	23 OCT 98	ALMC, FT LEE, VA
RESIDENT	99-003	1 MAR 99	12 MAR 99	15 JAN 99	ALMC, FT LEE, VA
RESIDENT	99-004	7 JUN 99	18 JUN 99	23 APR 99	ALMC, FT LEE, VA
RESIDENT	99-005	13 SEP 99	24 SEP 99	30 JUL 99	ALMC, FT LEE, VA
ON-SITE	99-701	5 OCT 98	16 OCT 98	21 AUG 98	FORT KNOX, KY
ON-SITE	99-702	25 JAN 99	5 FEB 99	11 DEC 98	FORT SAM HOUSTON, TX
ON-SITE	99-703	2 AUG 99	13 AUG 99	18 JUN 99	FT LEONARD WOOD, MO

TSM and TPIO Training. Effective with the implementation of OPMS XXI, TSM and TPIO positions are command selection list positions. In addition to the CD Executive Course, TSMs and TPIOs will attend an appropriate branch pre-command course(s). PERSCOM has been asked to schedule TSMs and TPIOs for branch pre-command prior to assumption of duties, when possible. The DCSCD will send welcome letters to incoming TSMs and TPIOs informing them of class dates (branch pre-command and the CD Executive Course) and asking that they coordinate with PERSCOM to attend training.

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### **HEMP Survivability- Did you Know?**

Did you know that Weapons of Mass Destruction (WMD) can provide a conventionally inferior opponent with an asymmetric "equalizer" capability that can challenge our Army's technological superiority? The proliferation of WMD, highlighted by Pakistan's and India's recent emergence as nuclear-capable nations, raises concern, and the Army needs to maintain and reemphasize its nuclear, biological, and chemical (NBC) survivability policies and programs. This article focuses on one aspect of the Army's nuclear survivability program: Protecting against effects of high-altitude electromagnetic pulse (HEMP) that can be generated by current and future nuclear threats.

Did you know that HEMP effects from one crude nuclear weapon burst by a rogue nation high over its own territory can negatively impact an entire theater of operations, damaging or destroying unprotected electronic systems? There are many ways to provide HEMP protection that are both cost effective and smart. Data indicate HEMP survivability costs are usually less than 1% of acquisition costs if materiel developers address HEMP early-on. HEMP simulators are available for testing at an average of \$5000 per day. DoD maintains three facilities at Kirtland AFB, NM to validate equipment and system HEMP survivability criteria. The Army's mobile HEMP simulator is based at White Sands Missile Range and can conduct testing at contractors' facilities. The Navy has a simulator at Patuxent River, MD.

Did you know that DoD and Army policies require that mission-critical systems survive HEMP effects? ORDs must state if equipment is mission critical and, if so, that it must at least survive HEMP effects. The U.S. Army Nuclear and Chemical Agency (USANCA) issues HEMP survivability criteria. If a system fails to meet the HEMP survivability criteria during milestone I testing and if a materiel modification is impractical or proven to be cost-prohibitive, the materiel developer can request a waiver of the unmet portion of the criteria.

In short, the Army's nuclear survivability program is an enduring requirement caused by the continued proliferation of WMD. Not only is it required, it is a prudent safeguard to maintain our high-tech advantage. The program is viable and affordable, but needs command attention to implement effectively. USANCA is responsible for managing this program and is available to assist the acquisition

community in meeting its responsibilities. USANCA can be contacted electronically at: [survivability@usanca-smtp.army.mil](mailto:survivability@usanca-smtp.army.mil)

USANCA POC: Colonel Jay Stobbs, (703) 806-7860

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## **CD Home Page**

The address to the CD home page has been shortened to:  
[www.tradoc.army.mil/dcscd](http://www.tradoc.army.mil/dcscd)

The CD Home Page has been established to keep the CD community up to date on the latest policy changes and provide a repository of some of the most requested information. The "What's New" page will contain a summary of all items added or updated on the web site over the last 90 days. Checking the "What's New" page periodically will ensure you stay updated on the latest CD policy.

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## **Misc. Notes**

✍✍ BG Stan Green has assumed duties as the Assistant Deputy Chief of Staff for Combat Developments (Joint Venture).

✍✍ The OSD policy requiring MAISRCs for Information programs has been eliminated as of 28 Jul 98. The announcement memorandum has been posted on the CD Homepage at: [www.tradoc.army.mil/dcscd/policy.htm](http://www.tradoc.army.mil/dcscd/policy.htm)

✍✍ The Devices Management Directorate and Combat Training Support Directorate of the Army Training Support Center have merged. The new directorate is called the Army Training Modernization Directorate (ATMD). There is no change to the materiel requirement document staffing process outlined in TP 71-9 except for a change in the office symbol. The address on the core staffing list has changed to: Commander USATSC, ATTN: ATIC-ATMR, Fort Eustis VA. 23604-5166. The e-mail address is the same: [ATICDMR@atsc.army.mil](mailto:ATICDMR@atsc.army.mil). ATMD prefers e-mail correspondence.

✍✍ When staffing materiel requirement documents with DISC4 (on core staffing list), DISC4 would prefer the document be sent electronically to: [gerstri@hqda.army.mil](mailto:gerstri@hqda.army.mil)

✍✍ AMSC Helps Career Progression- Recently Army Management Staff College recently completed a longitudinal; study of career progression of AMSC graduates. The study focused on graduates over a 5 year period from 1991 to 1996. Bottom line: AMSC graduates are promoted at a higher rate than nongraduates by an almost two to one margin. [Source: TRADOC FY97 Annual Report: A Civilian Management Perspective]

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